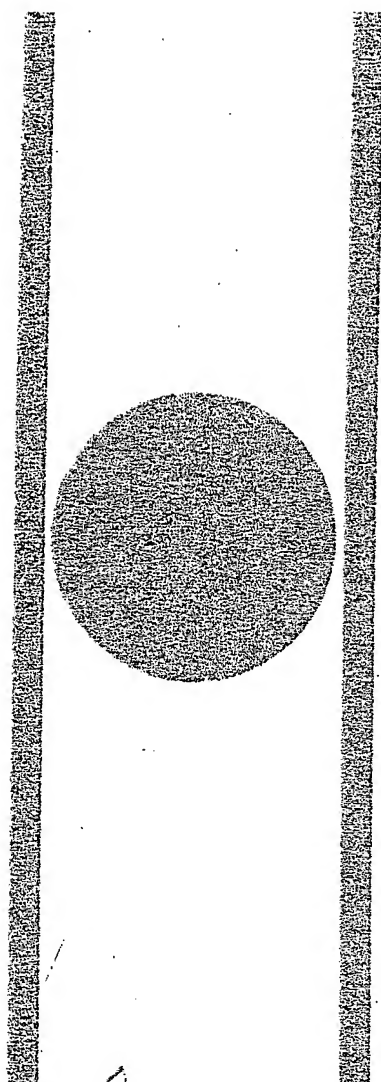Figure 1A
(prior art)

Figure 1B
(prior art)

Figure 1C
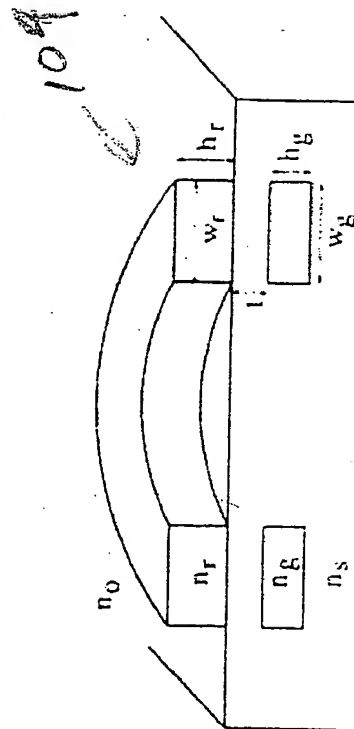(prior art)

10

20'

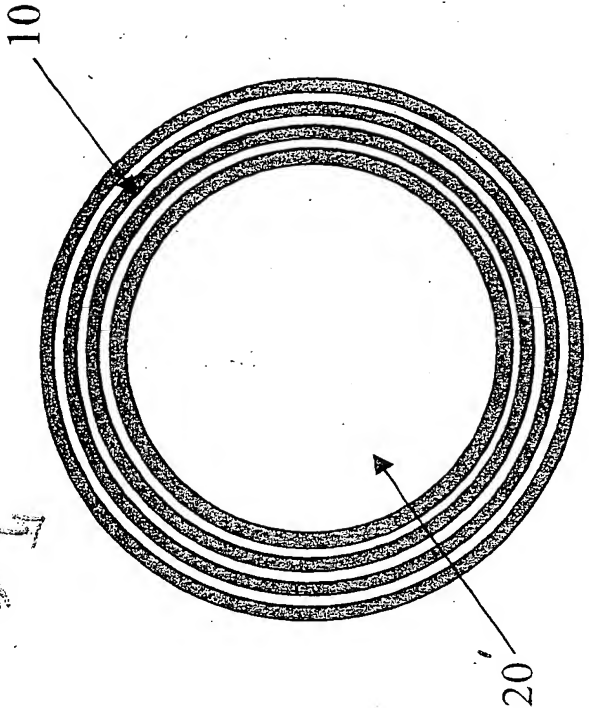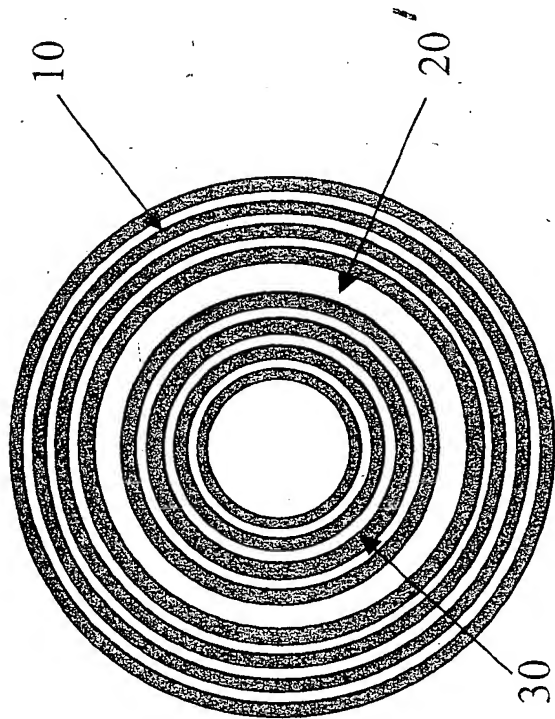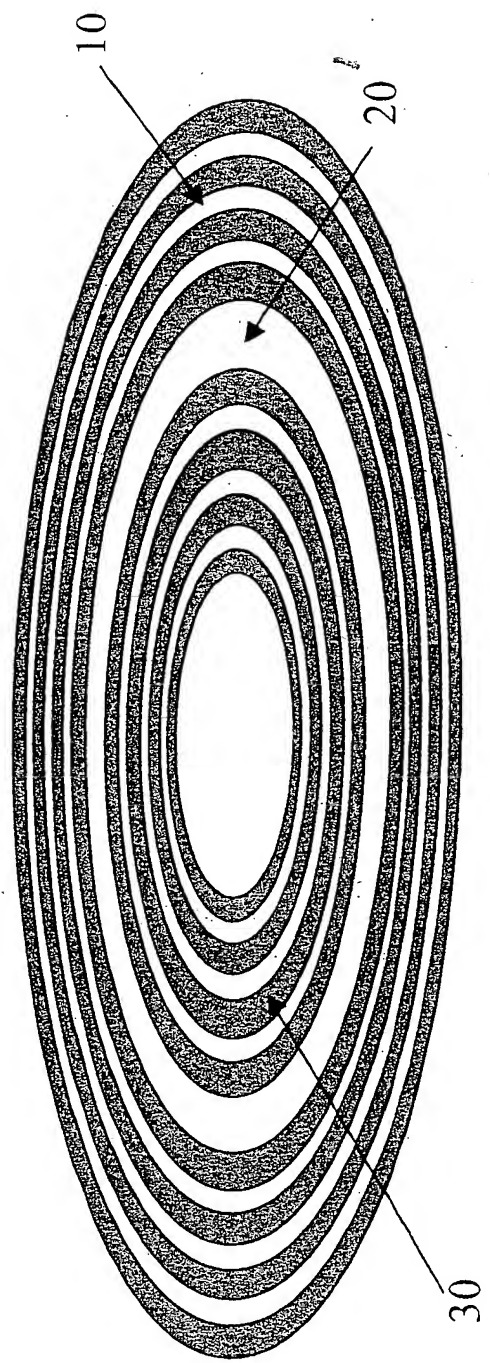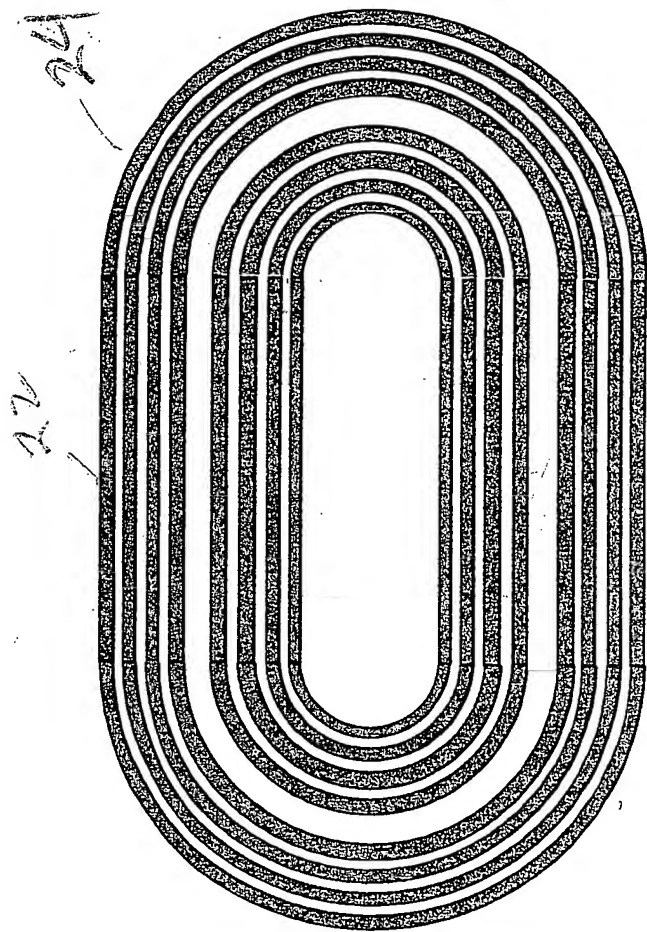Figure 2B

20'

10

20'

30

Figure 2A

10

20'

20'

30

Figure 2C

Figure 2D

Figure 3

Figure 4

"Active" medium
20

"Passive" medium
10

Light propagation
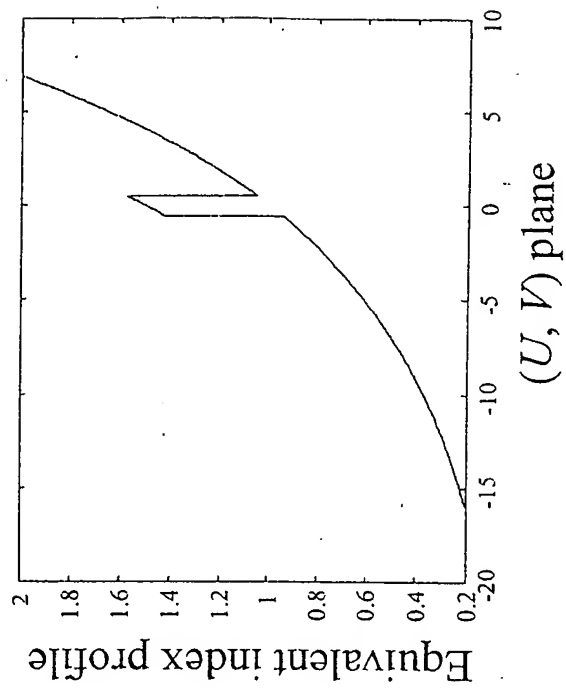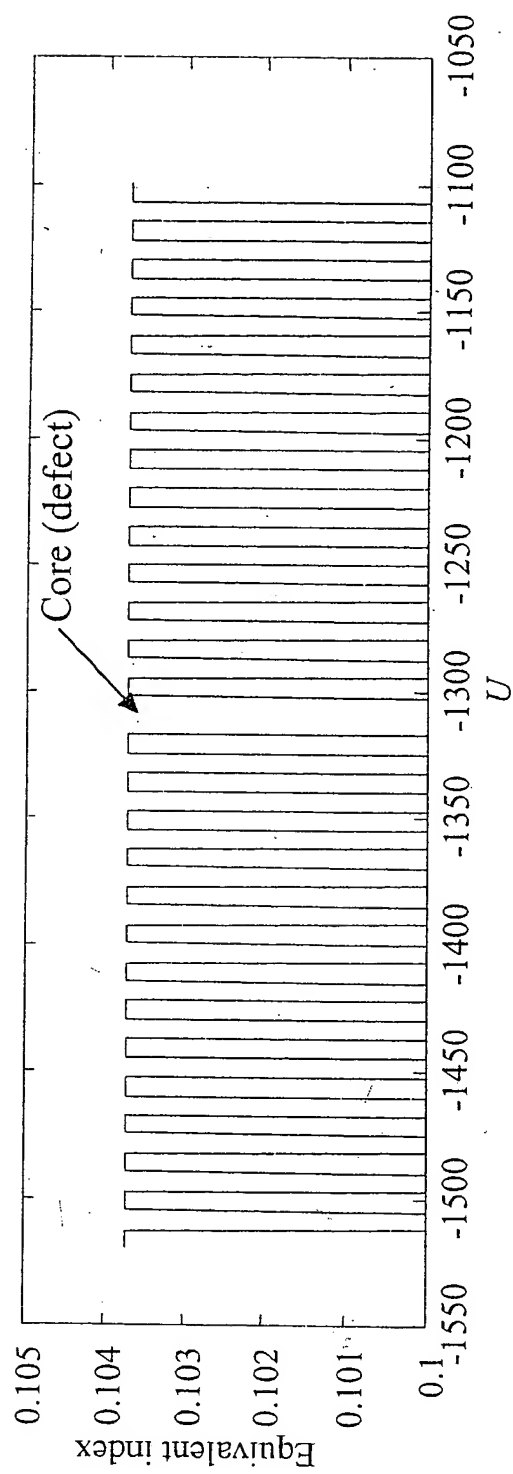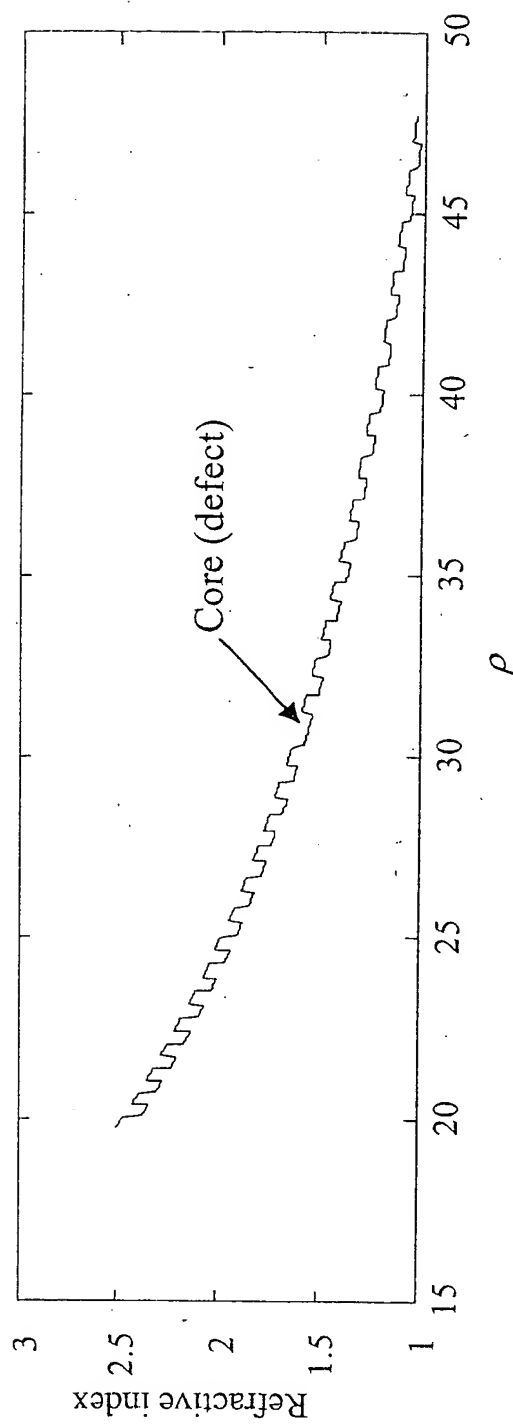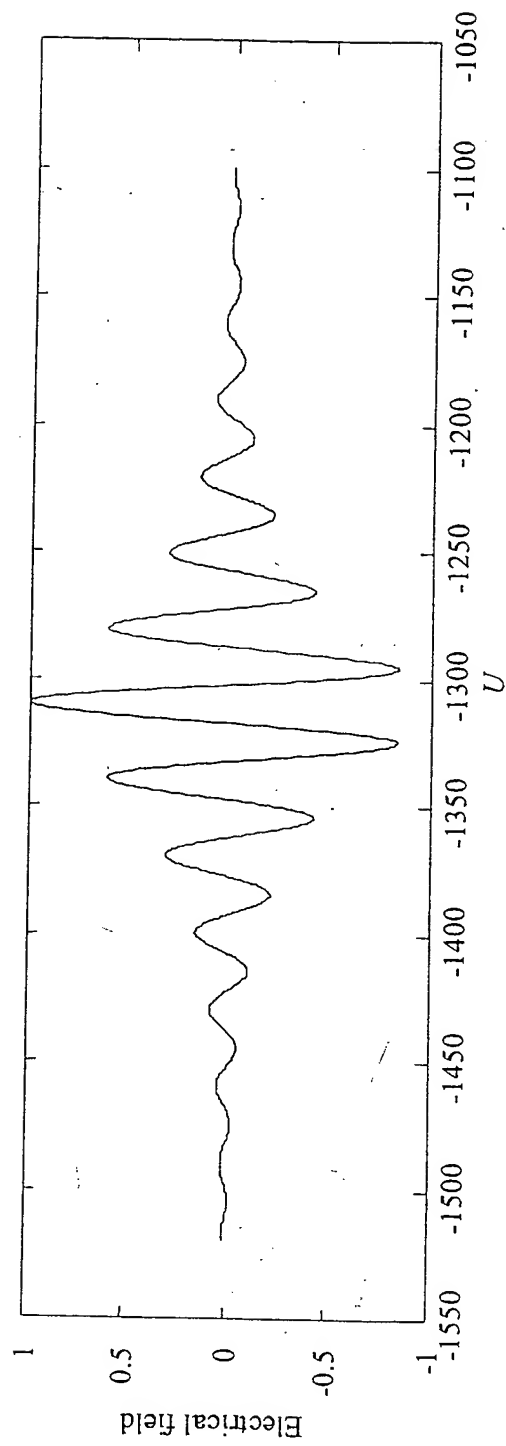Direction
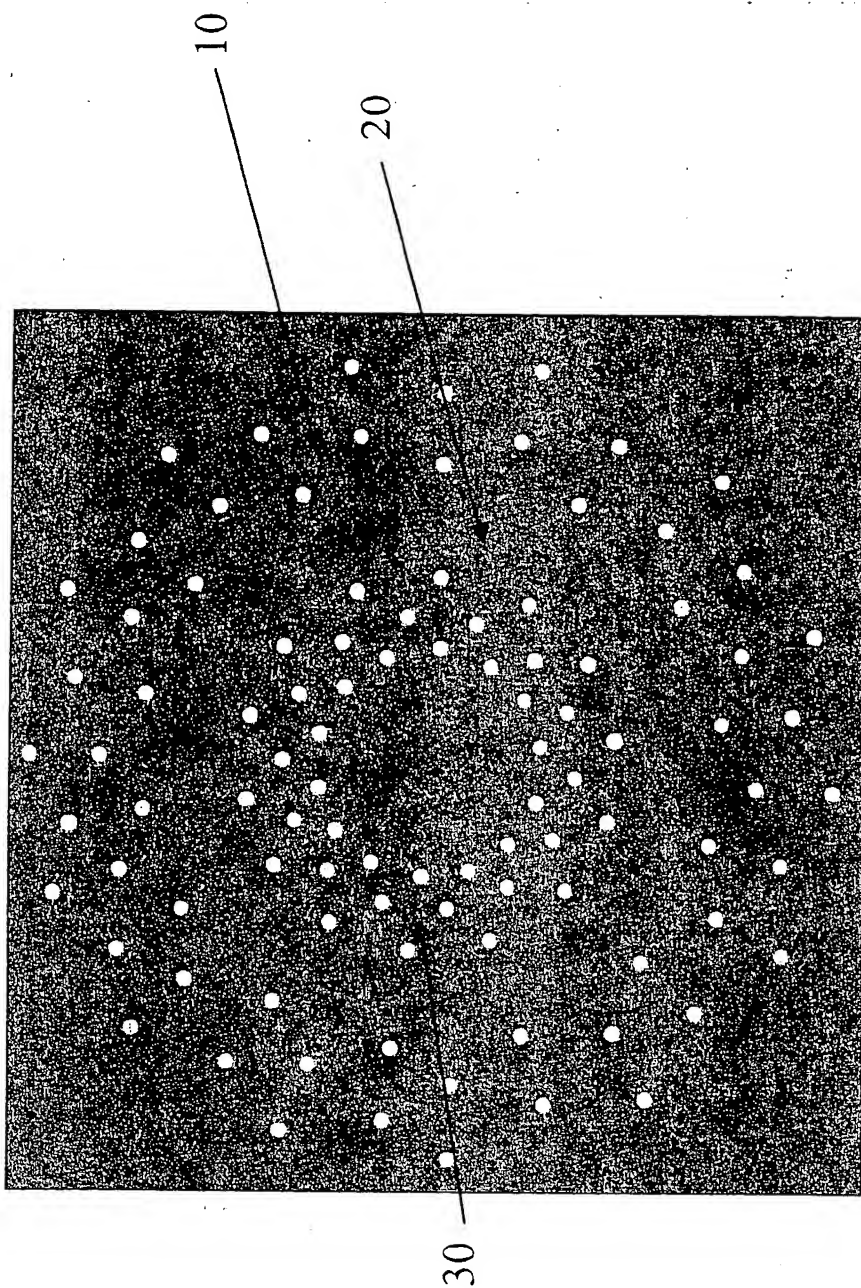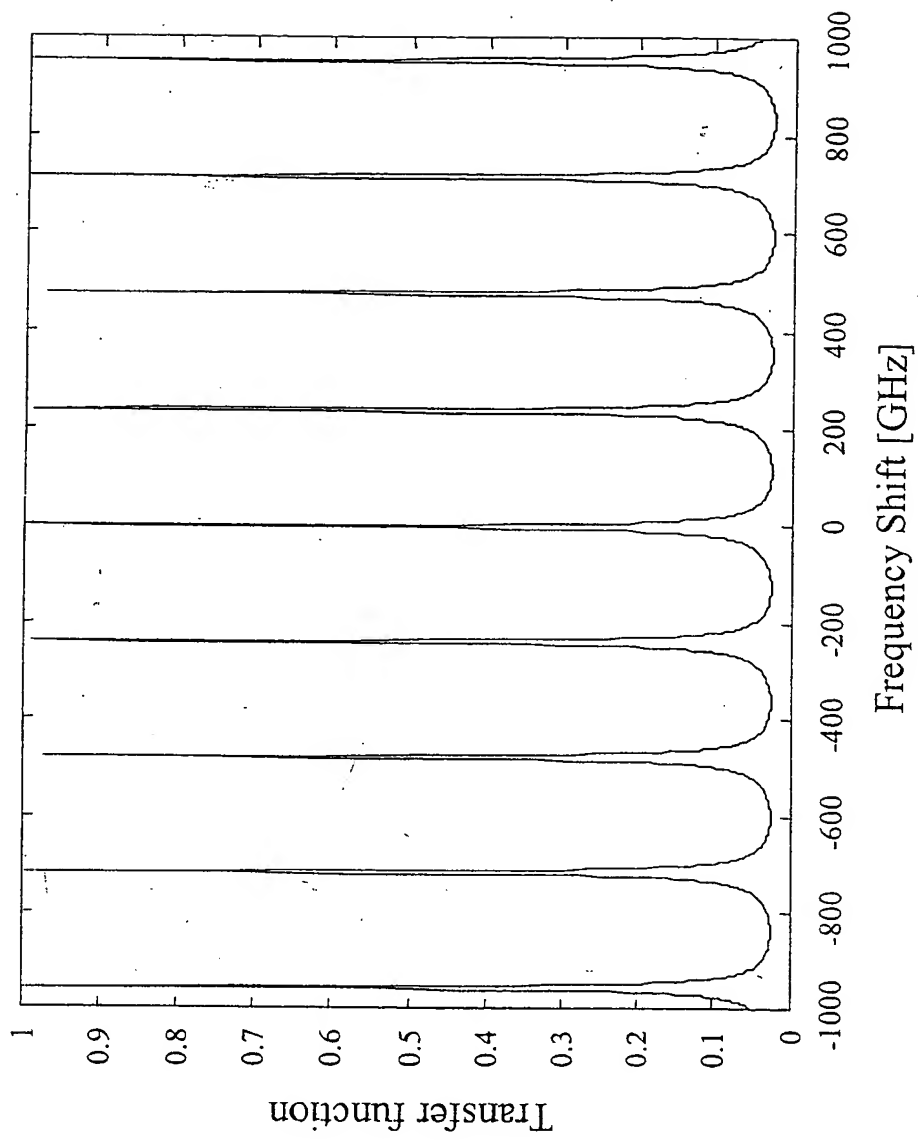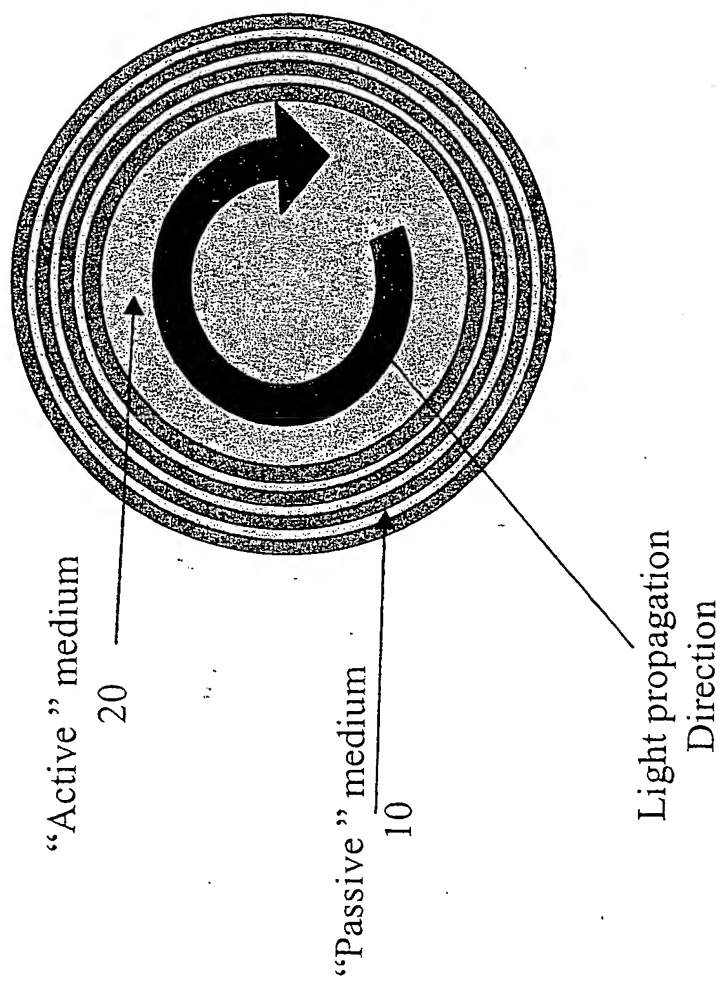
Figure 5

Mapped plane

Fig. 6b

Figure 6

Real plane
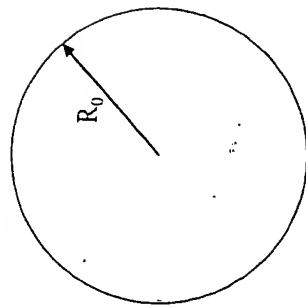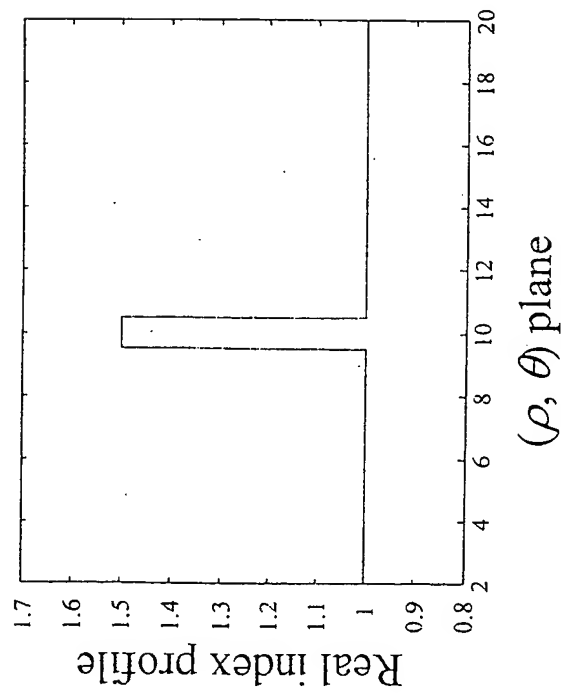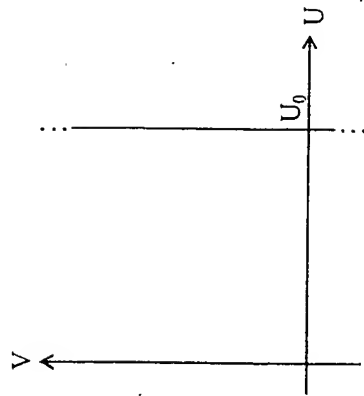
Fig. 6a

Figure 7A

Figure 7B

Figure 8A

Figure 8B

Field

Propagation
direction

Core

Equivalent
index

$\lambda/4$

$\lambda/4$

$\lambda/4$

$\lambda/4$

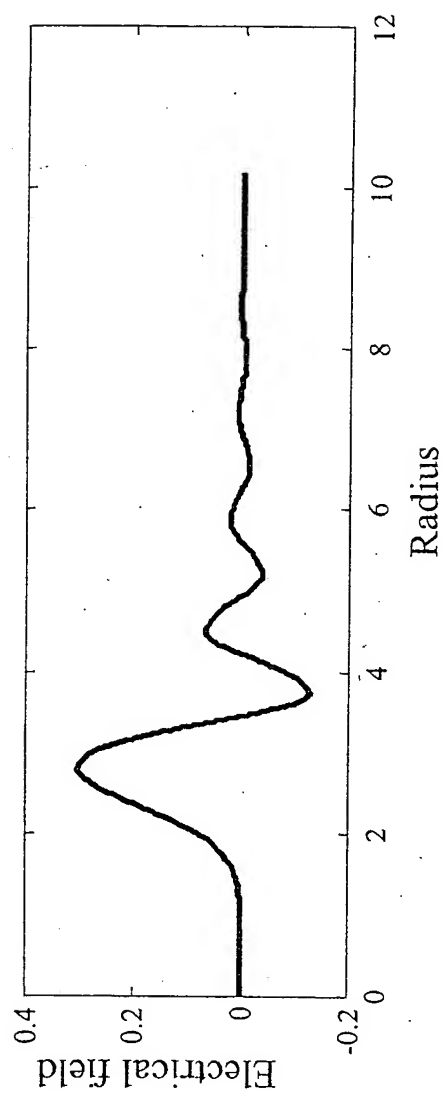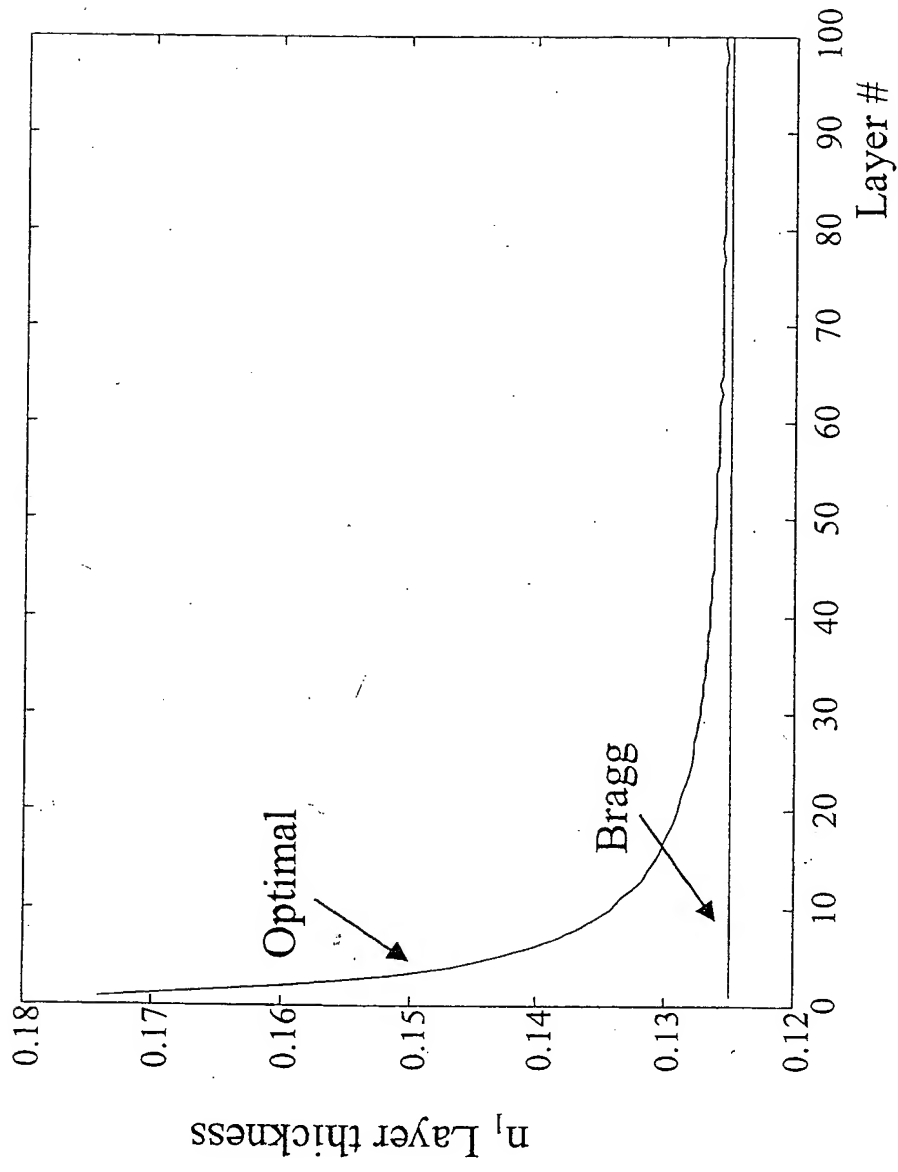Figure 9

Figure 10A

Refractive index

Radius

Figure 10B

Electrical field

Radius
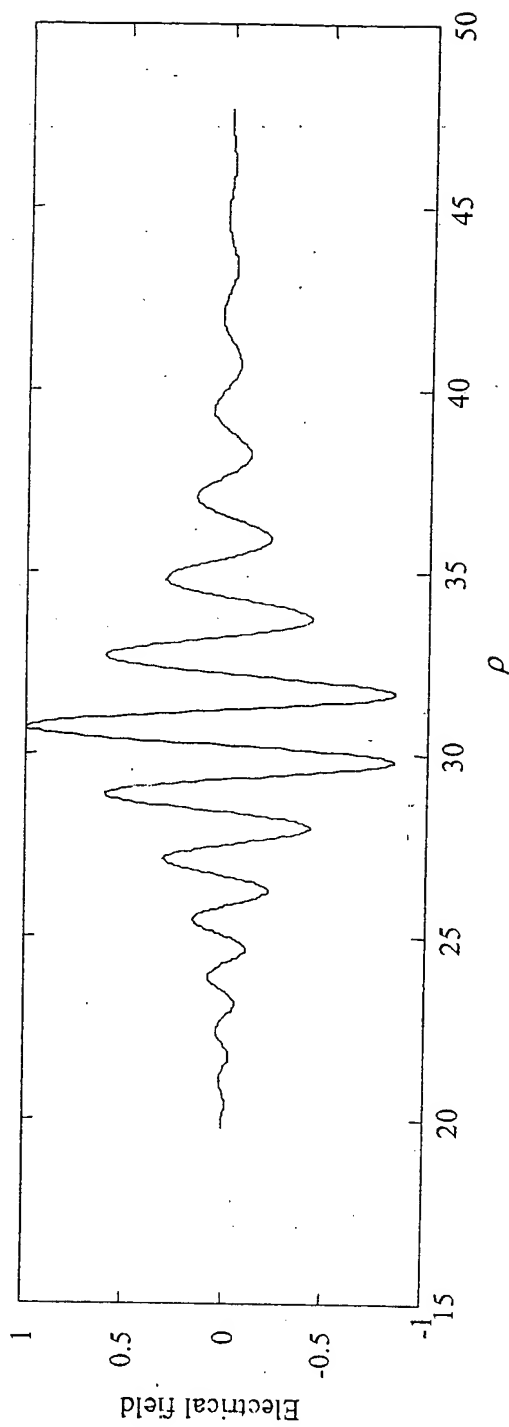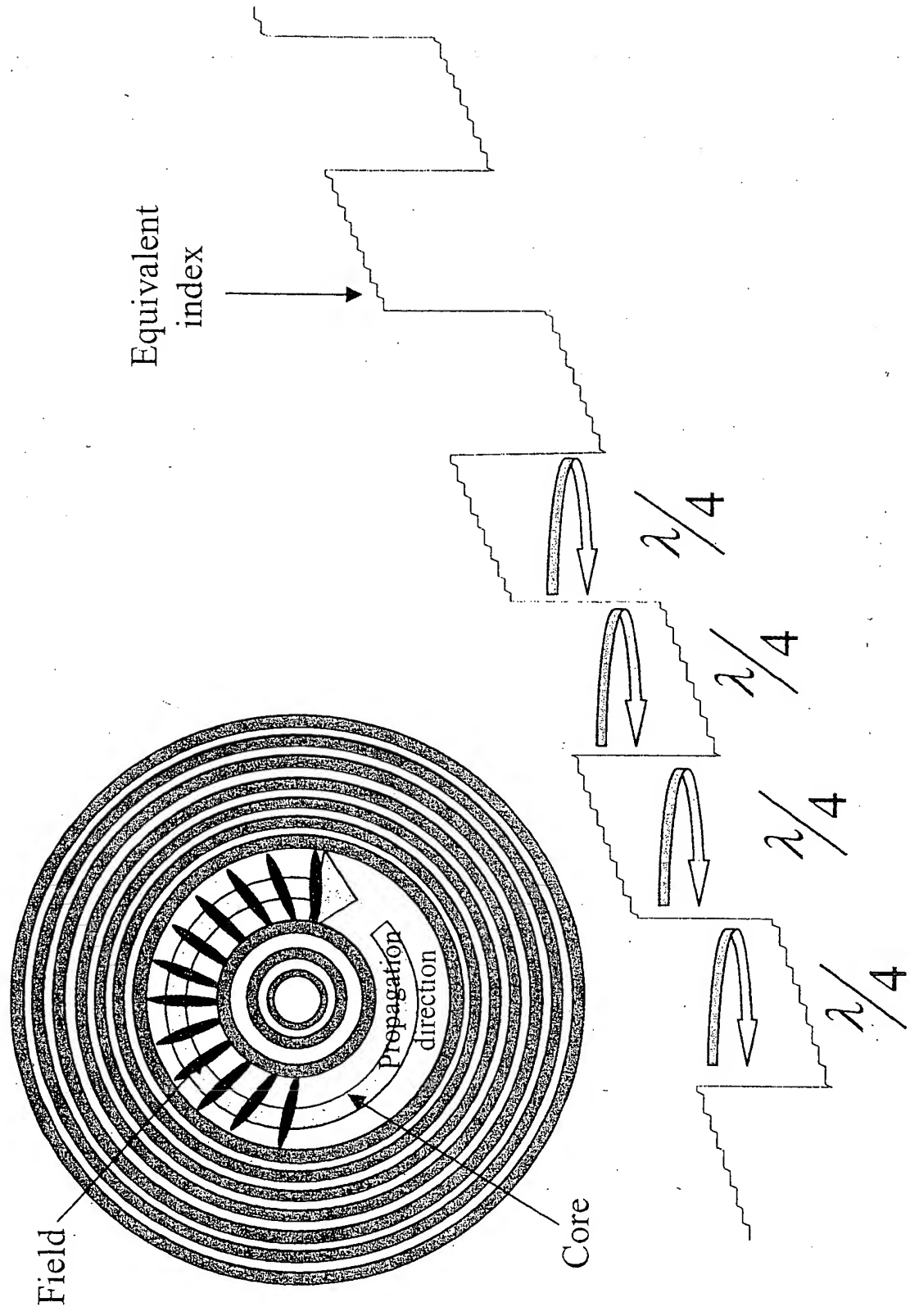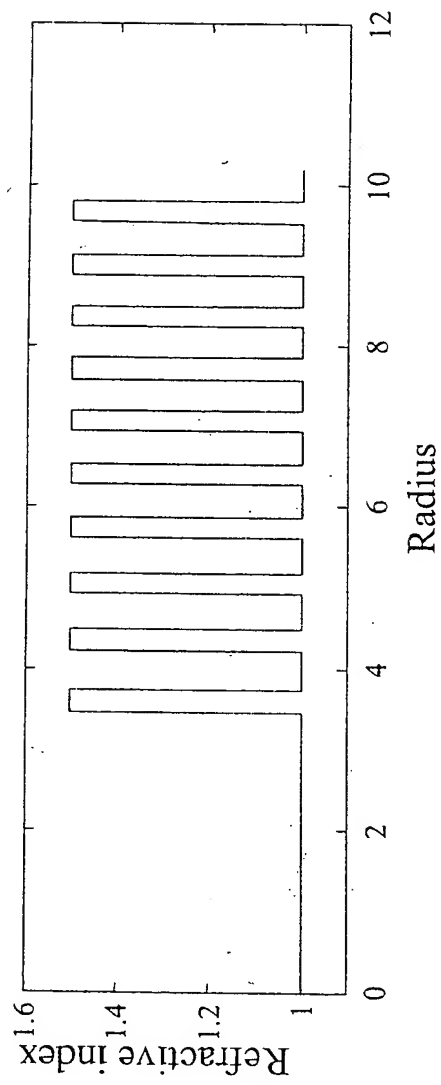
Figure 11

Figure 12A

Figure 12B